

## **Abstract**

The invention relates to a measuring device for measuring changes in the position of the edge of a body of a component. Said measuring device contains a sensor which reacts to the changes, a light source, a measuring edge fixed in relation to the edge of the body, and a light emitted from the light source. From the change in position, information about the deformation caused by a force  $F$  (for example, in the case of bearings) can be obtained, a weight or an imbalance can be determined, and joints and press fits can be monitored. The measurement is carried out by reflection or transmission, preferably using optical waveguides.